

REMARKS

Claims 20, 33-54 and 57-64 are pending, with claims 20, 33, 44, 51, 57 and 61 being independent. Claims 24-32 have been canceled.

Applicant acknowledges with appreciation the Examiner's allowance of claims 20 and 51-54.

Claims 24-49 and 57-64 have been rejected as being anticipated by Jung (U.S. Patent Publication No. 2002-0018912A).

With respect to independent claims 33 and 44, and their dependent claims, applicant again requests reconsideration and withdrawal of this rejection because Jung does not describe or suggest forming a mixed region comprising a mixture of first and second organic compounds during irradiation with light in the deposition chamber, as recited in independent claims 33 and 44. Rather, as previously noted, Jung describes formation of a polymer thin film that, as noted in paragraph [0036] of Jung, may include the simultaneous deposition of two or more organic compounds. A polymer (i.e., "a naturally occurring or synthetic substance consisting of giant molecules formed from polymerization") is significantly different from a mixture (i.e., "a substance containing two or more ingredients: distinguished from a compound in that the constituents are not in fixed proportions, do not lose their individual characteristics, and can be separated by physical means"). Jung's polymer thin film is not a mixture and does not have the properties of a mixture. For example, once polymerization has occurred to form the polymer thin film, the two or more constituent organic compounds used to form the polymer thin film would not seem to be separable by physical means.

In response to these arguments, the rejection asserts that it is inherent in Jung that the is a "mixed region of first organic compound and second organic compound." However, this assertion fails to address the fact that the claims recite more than just a mixed region comprising a first organic compound and a second organic compound. Instead, the claims recite that the mixed region includes a mixture of the first organic compound and a second organic compound.

As applicant has repeatedly shown, and as discussed above, Jung describes a polymer, which is significantly different from a mixture.

With respect to independent claims 33 and 44, and their dependent claims, applicant requests reconsideration and withdrawal of the rejection for the additional reason that Jung does not describe or suggest irradiating to activate the organic compound molecules and promote compact film formation. This irradiation and the resulting compactness is illustrated in Fig. 3A of the application and discussed, for example, at paragraphs [0063] to [0066]. Jung simply does not describe such activating of the organic compound or compacting of the film. Though the rejection indicates that Jung teaches irradiation during deposition to result in compact film formation, Jung nowhere indicates that compact film formation is promoted. In particular, while the rejection indicates that such compact film formation is shown in Fig. 2 and the related description and paragraph [0062] of Jung, these passages make no mention of compact film formation.

Accordingly, for at least these reasons, the rejection of claims 33 and 44, and their dependent claims, should be withdrawn.

Independent claim 57 recites compacting a layer of a compound by irradiating light to form a compacted layer comprising the compound. Accordingly, the rejection of claim 57 and its dependent claims should be withdrawn because, as discussed above, Jung does not describe or suggest such compacting.

Independent claim 61 recites forming a layer comprising a mixture of first and second compounds and irradiating with light to form a compacted layer comprising the mixture. Accordingly, the rejection of claim 61 and its dependent claims should be withdrawn because, as discussed above, Jung does not describe or suggest forming a layer comprising a mixture or compacting.

Applicant submits that all claims are in condition for allowance.

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The \$120 fee for the Petition for Extension of Time is being paid concurrently herewith on the electronic filing system (EFS) by way of deposit account authorization. Please apply any other charges or credits to deposit account 06-1050.

Respectfully submitted,


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